



Recommended Grid Code Modifications

GCRP 26 – 9th September 2010

**MPID 196 – Reporting of Medium/Long Term Operational
Characteristics**

MPID 199 – OC2 Operational Planning

MPID 197 – Controllable Wind Farm Extension

MPID 202 - Replace the term Commission with CER

Document identifier:		Authored by:	Arlene McGrath
Document version:	1.0	Checked by:	Sonya Twohig
Date of current issue:	8th December 2010	Approved by:	Jon O'Sullivan (GCRP Chairman)



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

MPID:	MPID 196
TITLE:	Reporting of Medium/Long Term Operational Characteristics
GRID CODE VERSION:	3.4
CLAUSE:	OC2
PROPOSED BY:	CER
RECOMMENDED BY GCRP NO:	26
DATE OF APPROVAL:	9 th September 2010
DATE SENT TO CER:	8th December 2010
INTRODUCTION	
<p>There are two key junctures in the operation and maintenance cycle of generation unit that provide an opportunity to assess major changes that can be expected in relation to the technical and operational characteristics of a plant and these are:</p> <ul style="list-style-type: none">• during the planning stage of a major outage and the decision to cancel a major outage and;• The findings during or following a major outage. <p>Such characteristics are important to the TSO and the Commission to enable them to assess, plan or implement the appropriate measures that may be required to address potential risk to security of supply and operation of the electricity system, particularly if a market based response is not forthcoming.</p> <p><u>Decision to Cancel a major Outage and Findings during Outage</u></p> <p>The Commission is aware that during the planning stage of a major outage, a Generator could decide for various reasons (e.g. financial or technical etc) that a major outage should not be conducted. The Generator may instead opt for specific maintenance or changes to its plant.</p> <p>In this situation it is possible that the Generation Unit could continue to operate for a period of time and beyond the scheduled outage time frame. This could mean a change in its mode of operation following some form of repair and maintenance. It is also possible that the plant could continue to operate in a less than optimal or normal state.</p> <p>Another opportunity that could signal the closure or change in characteristics of a generation unit is during a major plant outage. It is arguable that more factual information will be available to the generator following a major outage in relation to the condition of the generation unit.</p> <p>Such decisions are important to the TSO and to the Commission to enable them to assess, plan or implement the appropriate measures that may be required to address potential risk to security of supply and the operation of the electricity system, particularly if a market based response is not forthcoming.</p> <p><u>Recommendations:</u></p> <ol style="list-style-type: none">1. The decision to cancel a major outage must be immediately notified to the TSO.	

2. Following a generator's decision to cancel a major outage, the generator should engage with the TSO to agree the type of on-going information required by the TSO regarding the operation and condition of the plant. The level of information should be practical, useful and proportionate, to enable the TSO to make its necessary assessments and propose mitigation measures (where required) in relation to the security of supply.
3. It is proposed that a significant fault discovered during the outage should be immediately communicated to the TSO. The generator should then engage with the TSO to agree the practical information that will be provided over time to the TSO to make its necessary assessments and propose mitigation measures (where required) in relation to the security of supply.
4. It is proposed that at all times the minimum notification periods of 3 years (36 months) for generation units over 50 MW and 2 years (24 months) for generation units up to 50 MW and wind generation must be maintained.
5. The Commission is of the view that the TSO is best placed to propose the level and type of information required, in order to monitor or assess significant implications on security of supply, or impacts on assessments for the purpose of its Generation Adequacy Report. Notwithstanding this point, the Commission proposes that the minimum reporting requirements should cover:
 - An explanation for the cancelled outage or failure;
 - Disclosure of short to long term operational intentions and plans for closure;
 - Annual notification to the TSO in the event of major changes to operational intentions (and) or characteristics of the generation unit as a result of its decision not to proceed with the major outage;
 - A technical report evaluating the risks of catastrophic failure.

Sudden and Catastrophic Failure

This means the unexpected and unplanned failure of a generation unit. It is assumed that such an event could lead to a temporary or permanent shutdown of the generation unit. In practice the TSO is informed immediately upon a failure being detected and the Commission requires that such notification must continue to be immediate and formally retained.

It is also possible (but not always necessary) that the unexpected failure or shutdown of a generation unit could have significant consequences on the security of supply and the operation of the transmission system. If such a situation did arise, it is proposed that the TSO should notify the Commission where such failure has or could significantly affect the security of supply and potential mitigation measures should be identified to safe guard the security of supply and operation of the electricity system.

Recommendations:

- The continuation of the current practice of immediate notification to the TSO in the event of a sudden or unplanned failure of the plant.

- The **Generator** should engage with the TSO on the impact of the failure and the future operation of the **Generation Unit**.

As a result of the unexpected failure it is proposed that the TSO should notify the Commission of the results of its assessments should potential risks to the security of supply arise.

RED LINE VERSION – it is proposed to modify the Grid Code text by adding the following text in blue and by deleting the text in red strike-through.

OC2.2 OBJECTIVE

The primary objective of OC2 is to promote the development and implementation of a co-ordinated **Generation Outage Programme**, consistent with security of supply and requirements for the secure and economic operation of the **Transmission System** and the **Other Transmission System**, and with the needs of **Generators, Generator Aggregators** or **Dispatchable Demand Customers** in respect of **Plant** maintenance requirements and resource limitations.

In order to achieve this objective, OC2 defines:

- (a) the procedure for formal notification of **Outages** by **Generators, Generator Aggregators, Dispatchable Demand Customers** and **Demand Side Aggregators** to the TSO;
- (b) the procedures by which the **Indicative, Provisional** and **Committed Outage Programmes** are reviewed by the TSO, in consultation with **Generators, Generator Aggregators, Dispatchable Demand Customers** or **Demand Side Aggregators**; ~~and~~
- (c) the co-ordination of **Outage** planning and the interchange of **Outage** schedules with the **Other TSO**; ~~and~~
- (d) the procedure for formal notification by **Generators, Generator Aggregators, Dispatchable Demand Customers** or **Demand Side Aggregators** of:
 - a. a decision to cancel a major **Outage** of a **Generating Unit**;
 - b. the findings during or following a major **Outage** of a **Generating Unit**;
 - c. an unexpected and unplanned failure of a **Generating Unit**.

OC2 shall apply to all proposed **Outages** that may affect the ability of a **Generation Unit, Aggregated Generating Unit** and **Demand Side Unit** to achieve, in accordance with its **Registered Operating Characteristics**, either its full **Registered Capacity**, appropriate to each **Registered Fuel**, or its **Demand Reduction Capability** as the case maybe.

OC2.7 also requires **Generators, Generator Aggregators** and **Dispatchable Demand Customers** to inform the TSO of other proposed maintenance of a **Generation Unit** or **Aggregated Generating Unit, Demand Side Unit** or any associated **Plant** or **Apparatus**, where such maintenance will affect the availability of **Ancillary Services** in respect of that **Generation Unit**.

OC2.7 OTHER INFORMATION TO BE NOTIFIED

- OC2.7.1 **Generators** will inform the **TSO** of any proposed maintenance, in addition to **Outages**, which will, or is likely to, affect the capability of the **Generation Unit** to provide **Ancillary Services**, as soon as is reasonably possible.
- OC2.7.2 The **TSO** may, where security of supply or the secure operation of the **Transmission System** or the **Other Transmission System** would be at risk, request alterations to maintenance notified under Section OC2.7.1. The **TSO** shall make reasonable endeavours to give as much notice as possible for such requests for alterations. Where the **TSO** makes such a request, the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** shall use reasonable endeavours to comply with the request in arriving at the **User's** final programme for such maintenance.
- OC2.7.3 The **DSO** shall co-operate with the **TSO** and **Embedded Generators** and **Dispatchable Demand Customers** in all phases of **Outage** planning to promote **Capacity Adequacy** and ensure system security.
- OC2.7.4 **Generators** must immediately notify the **TSO** on making the decision to cancel a major **Outage** of a **Generation Unit**.
- OC2.7.4.1 Following the decision by a **Generator** to cancel a major **Outage** of a **Generation Unit** the **Generator** must report to the **TSO**, on an on-going basis, practical, useful, and proportionate information to allow the **TSO** to make the necessary assessments and propose mitigation measures in relation to security of supply.
- OC2.7.4.1.2 The reports should cover the following:
- a) an explanation for the cancellation of a major **Outage**;
 - b) annual notification of major changes to the operational intentions of the **Generator** and/or characteristics of the **Generation Unit** as a result of the decision not to proceed with the major **Outage**;
 - c) assessments covering the risks of sudden and catastrophic failure.
- OC2.7.5 A **Generator** must immediately notify the **TSO** in the event of sudden and catastrophic failure of a **Generation Unit**.
- OC2.7.5.1 The **Generator** must report to the **TSO** the impact of the failure of the **Generation Unit** and the future operation of the **Generation Unit**.
- OC2.7.5.2 The **TSO** must notify the **Regulatory Authority** if the assessments covering the sudden and catastrophic failure of a **Generation Unit** highlight the emergence of potential risks to the security of supply and the operation of the **System**.

NEW VERSION

OC2.2 OBJECTIVE

The primary objective of OC2 is to promote the development and implementation of a co-ordinated **Generation Outage Programme**, consistent with security of supply and requirements for the secure and economic operation of the **Transmission System** and the **Other Transmission System**, and

with the needs of **Generators, Generator Aggregators** or **Dispatchable Demand Customers** in respect of **Plant** maintenance requirements and resource limitations.

In order to achieve this objective, OC2 defines:

- a) the procedure for formal notification of **Outages** by **Generators, Generator Aggregators, Dispatchable Demand Customers** and **Demand Side Aggregators** to the TSO;
- b) the procedures by which the **Indicative, Provisional** and **Committed Outage Programmes** are reviewed by the TSO, in consultation with **Generators, Generator Aggregators, Dispatchable Demand Customers** or **Demand Side Aggregators**;
- c) the co-ordination of **Outage** planning and the interchange of **Outage** schedules with the **Other TSO**; and
- d) the procedure for formal notification by **Generators, Generator Aggregators, Dispatchable Demand Customers** or **Demand Side Aggregators** of:
 - a) a decision to cancel a major **Outage** of a **Generating Unit**;
 - b) the findings during or following a major **Outage** of a **Generating Unit**;
 - c) an unexpected and unplanned failure of a **Generating Unit**.

OC2 shall apply to all proposed **Outages** that may affect the ability of a **Generation Unit, Aggregated Generating Unit** and **Demand Side Unit** to achieve, in accordance with its **Registered Operating Characteristics**, either its full **Registered Capacity**, appropriate to each **Registered Fuel**, or its **Demand Reduction Capability** as the case maybe.

OC2.7 also requires **Generators, Generator Aggregators** and **Dispatchable Demand Customers** to inform the TSO of other proposed maintenance of a **Generation Unit** or **Aggregated Generating Unit, Demand Side Unit** or any associated **Plant** or **Apparatus**, where such maintenance will affect the availability of **Ancillary Services** in respect of that **Generation Unit**.

OC2.7 OTHER INFORMATION TO BE NOTIFIED

OC2.7.1 **Generators** will inform the TSO of any proposed maintenance, in addition to **Outages**, which will, or is likely to, affect the capability of the **Generation Unit** to provide **Ancillary Services**, as soon as is reasonably possible.

OC2.7.2 The TSO may, where security of supply or the secure operation of the **Transmission System** or the **Other Transmission System** would be at risk, request alterations to maintenance notified under Section OC2.7.1. The TSO shall make reasonable endeavours to give as much notice as possible for such requests for alterations. Where the TSO makes such a request, the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** shall use reasonable endeavours to comply with the request in arriving at the **User's** final programme for such maintenance.

OC2.7.3 The DSO shall co-operate with the TSO and **Embedded Generators** and **Dispatchable Demand Customers** in all phases of **Outage** planning to promote **Capacity Adequacy** and ensure system security.



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

OC2.7.4	Generators must immediately notify the TSO on making the decision to cancel a major Outage of a Generation Unit .
OC2.7.4.1	Following the decision by a Generator to cancel a major Outage of a Generation Unit the Generator must report to the TSO , on an on-going basis, practical, useful, and proportionate information to allow the TSO to make the necessary assessments and propose mitigation measures in relation to security of supply.
OC2.7.4.1.2	The reports should cover the following: <ul style="list-style-type: none"> a) an explanation for the cancellation of a major Outage; b) annual notification of major changes to the operational intentions of the Generator and/or characteristics of the Generation Unit as a result of the decision not to proceed with the major Outage; c) assessments covering the risks of sudden and catastrophic failure.
OC2.7.5	A Generator must immediately notify the TSO in the event of sudden and catastrophic failure of a Generation Unit .
OC2.7.5.1	The Generator must report to the TSO the impact of the failure of the Generation Unit and the future operation of the Generation Unit .
OC2.7.5.2	The TSO must notify the Regulatory Authority if the assessments covering the sudden and catastrophic failure of a Generation Unit highlight the emergence of potential risks to the security of supply and the operation of the System .

MPID:	MPID 199
TITLE:	Operational Planning
GRID CODE VERSION:	3.4
CLAUSE:	OC2
PROPOSED BY:	EirGrid
RECOMMENDED BY GCRP NO:	26
DATE OF APPROVAL:	9 th September 2010
DATE SENT TO CER:	8th December 2010

INTRODUCTION

OC2 was drafted at the time when ESB was a vertically-integrated utility. ESB, as asset owner, carried out generation asset management for the plant portfolio at that time. OC2 reflected this practice as it covered periods from the current year to Year 7.

The changes to OC2 are to reflect the current practice (since EirGrid is the Transmission System Operator and not the asset owner):

- (a) Outage planning is carried out for years 0, 1, 2 and 3.
- (b) Capacity Adequacy Indicators are produced each week for the following 4 week period.

An action was taken from the GCRP 26 to confirm that the proposed modification will have no impact on SEMO data feeds. Doireann Barry sent an email to the GCRP Chairperson to confirm no impact will occur.

The SEMO data feeds for Generation Outage Plans are outlined in Appendix F, items F9 and F10 of the Trading and Settlement code,

<http://www.sem-o.com/MarketDevelopment/Pages/MarketRules.aspx>

The extracts read as follows:

F.9 Each System Operator shall submit a two year Maintenance Schedule Data Transaction to the Market Operator at least two months before the start of each Year, and whenever it is updated. The following shall also apply:

1. The Maintenance Schedule Data Transaction shall contain the Maintenance Schedule for each Generator and Interconnector, identified by the System Operator as part of the Grid Code operational planning process in the relevant Jurisdiction over the next two Years.

1. The Market Operator shall only provide for Type 1 Communication Channel for the communication of such Maintenance Schedule Data Transaction from the System Operator during normal operation of the Market Operator's Isolated Market System and the Type 1 Communication Channel.

F.10 Each System Operator shall submit a monthly Maintenance Schedule Data Transaction to the Market Operator at least one Working Day before the start of each Month, and whenever it is updated. The following shall also apply:

1. The monthly Maintenance Schedule Data Transaction shall contain the Maintenance Schedule of each Generator connected to the Transmission System in the relevant Jurisdiction over the next two Months, and the Maintenance Schedule of each line on the Transmission System in the relevant Jurisdiction over the next two Months.

2. The Market Operator shall only provide for Type 1 Communication Channel for the communication of monthly Maintenance Schedule Data Transactions from the System Operator during normal operation of the Market Operator's Isolated Market System and the Type 1 Communication Channel.

The proposed changes for the Grid Code will not impact on the provision of this data as EirGrid will still be developing outage plans for the next 3 years (Year 1, Year 2 and Year 3), which is in excess of the 2 year obligation as per F.9 above.

Regards,

Doireann

***Doireann Barry**
EirGrid plc*

RED LINE VERSION – it is proposed to modify the Grid Code text by adding the following text in blue and by deleting the text in red strike-through.

OC2 OPERATIONAL PLANNING

OC2.1 INTRODUCTION

Secure operation of an electricity system requires that maintenance of production facilities (**Generation Units, Aggregated Generating Units and Demand Side Units**) should be carried out in a timely and orderly fashion. This is essential in order to enable the **TSO** to fulfil its obligations relating to operation of the **Transmission System**, and to enable **Generators, Generator Aggregators or Dispatchable Demand Customers** to plan their **Outages** in an orderly way with due regard to **Plant** requirements and resource limitations. The mechanisms by which this is achieved are formalised in this Operational Planning Code (Generation).

OC2.2 OBJECTIVE

The primary objective of OC2 is to promote the development and implementation of a co-ordinated **Generation Outage Programme**, consistent with security of supply and requirements for the secure and economic operation of the **Transmission System** and the **Other Transmission System**, and with the needs of **Generators, Generator Aggregators or Dispatchable Demand Customers** in respect of **Plant** maintenance requirements and resource limitations.

In order to achieve this objective, OC2 defines:

- (a) the procedure for formal notification of **Outages** by **Generators, Generator Aggregators, Dispatchable Demand Customers and Demand Side Aggregators** to the **TSO**;
- (b) the procedures by which the **Indicative, Provisional and Committed Outage Programmes** are reviewed by the **TSO**, in consultation with **Generators, Generator Aggregators, Dispatchable Demand Customers or Demand Side Aggregators**; and
- (c) the co-ordination of **Outage** planning and the interchange of **Outage** schedules with the **Other TSO**.

OC2 shall apply to all proposed **Outages** that may affect the ability of a **Generation Unit, Aggregated Generating Unit and Demand Side Unit** to achieve, in accordance with its **Registered Operating Characteristics**, either its full **Registered Capacity**, appropriate to each **Registered Fuel**, or its **Demand Reduction Capability** as the case maybe.

OC2.7 also requires **Generators, Generator Aggregators and Dispatchable**

Demand Customers to inform the **TSO** of other proposed maintenance of a **Generation Unit** or **Aggregated Generating Unit**, **Demand Side Unit** or any associated **Plant** or **Apparatus**, where such maintenance will affect the availability of **Ancillary Services** in respect of that **Generation Unit**.

OC2.3 SCOPE

Operational Planning applies to the **TSO** and to the following, each of which is a **User** under this OC2:

- (a) **Generators** which for the purposes of OC2 includes all **Generators** with **Registered Capacity** greater than 5 MW or which are subject to **Central Dispatch**;
- (b) **Generator Aggregators**;
- (c) **Dispatchable Demand Customers**; and
- (d) The **Distribution System Operator (DSO)**.

OC2.4 OUTAGE SCHEDULING

OC2.4.1 Throughout OC2 the current year shall be defined as year 0, the following year as Year 1, and so on. The **Outage** planning process in respect of a **Generation Unit**, **Aggregated Generating Unit** and **Demand Side Unit** shall commence not later than ~~three (3)~~ **one (1)** years prior to the **Scheduled Operational Date** or from the date of the relevant agreements, whichever is the later.

OC2.4.2 In rolling over the **Generation Outage Programme** from one year to the next, for every year except the first year of the planning process:

- (a) submissions by the **Generator**, **Generator Aggregator** and/or **Dispatchable Demand Customer** for year 2 should reflect the current **Provisional Outage Programme** for year 3; and
- (b) submissions by the **Generator**, **Generator Aggregator** and/or **Dispatchable Demand Customer** for year 1 should reflect the current **Provisional Outage Programme** for year 2.

except, in any such case, to the extent that the **Generator**, **Generator Aggregator** or **Dispatchable Demand Customer** is reasonably responding to changed

circumstances. This does not require **Generators, Generator Aggregators** or **Dispatchable Demand Customers** to explain changes unless required to do so by the **TSO**. The aggregate of all **Generators' Outage Programmes** is the **Generation Outage Programme** that will comprise the **COP, and POP and IOP**.

OC2.4.3 By the end of March in year 0, **Generators, Generator Aggregators** and **Dispatchable Demand Customers** shall submit to the **TSO**, for each **Generation Unit, Aggregated Generating Unit** or **Demand Side Unit**, details of **Outages** and estimates of the **Forced Outage Probabilities** for inclusion in:

- (a) the **Committed Outage Programme (COP)** for year 1. Other than in the first year after the planning process has commenced, this will be based on the previous year's **Provisional Outage Programme** for year 2, which period through the passage of time has now become year 1, and any changes may only reflect the **Generator's, Generator Aggregator's, and Dispatchable Demand Customer's** reasonable response to changed circumstances;
- (b) the **Provisional Outage Programme (POP)** for years 2 and 3; ~~and~~
- ~~(c) — the Indicative Outage Programme (IOP) for years 4 to 7.~~

In the case of **Aggregated Generating Units**, and **Demand Side Units** which consist of **Aggregated Demand Sites**, the **Generator Aggregator** or **Dispatchable Demand Customer** shall provide the aggregated **Outages**, and upon request from the **TSO** the **Generator Aggregator** or **Dispatchable Demand Customer** shall provide the **Outage** for each individual site, in a reasonable time period.

Generators, Generator Aggregators and **Dispatchable Demand Customers** shall specify with regard to each of their **Generation Units, Aggregated Generating Units** or **Demand Side Units**, the start date and time and the duration of each **Outage**.

OC2.4.4 In scheduling **Outages**, and in relation to all other matters under OC2, the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** must act reasonably and in good faith. Without limitation to such obligation, each **Generator, Generator Aggregator** and **Dispatchable Demand Customer** should act in accordance with **Good Industry Practice** in planning their **Outages** and, in particular, so as to avoid a situation arising in which a **Generator, Generator Aggregator** or **Dispatchable Demand Customer** is obliged to schedule an **Outage** at short notice by reason of obligations imposed upon the **Generator, Generator**

	<p>Aggregator or Dispatchable Demand Customer by statute as a consequence of the Generator, Generator Aggregator or Dispatchable Demand Customer not having planned in accordance with Good Industry Practice, for example, by not having planned sufficiently in advance its Outages for any statutory time limit.</p>
OC2.4.5	<p>When submitting proposed Outages for inclusion in the COP, POP and IOP, Generators, Generator Aggregators and Dispatchable Demand Customers shall, unless they reasonably substantiate that an Outage is inflexible, specify:</p> <ul style="list-style-type: none">(a) an alternative preferred window, or alternative preferred windows, of opportunity within each year for any Outage;(b) the minimum Outage duration which would be acceptable, if less than the scheduled Outage duration;(c) situations where the paralleling of Outages of two or more of its Generation Units, Aggregated Generating Units, Demand Side Units or Aggregated Demand Side Units may be required, desirable, undesirable or not possible;(d) a priority order associated with the various Outages scheduled by the Generator, Generator Aggregators and Dispatchable Demand Customer;(e) any Outages where it is particularly desirable that they should take place within the year scheduled; or(f) any Outage where its timing is dependent on Generation Unit run hours, equivalent run hours or starts.
OC2.4.6	<p>Generators, Generator Aggregators, Dispatchable Demand Customers Details of proposed Outages for years 4 to 7 are required to signal adequately in advance major Outages which could impact on capacity adequacy or on the TSO's transmission outage maintenance and development programmes and are indicative only. In rolling over the Generation Outage Programme from one year to the next each Generator, Generator Aggregator and Dispatchable Demand Customer shall not be constrained in making any submission by any previous Indicative Provisional Outage Programme.</p>
OC2.4.7	<p>Between March and June of year 0, the TSO shall carry out a security analysis of years 1 to 7 in light of proposed Outages and other relevant matters including:</p> <ul style="list-style-type: none">(a) Outages of other Generation Units, Aggregated Generating Units and Demand Side Units;(b) Outages of Generation Units, Aggregated Generating Units and Demand Side Units on the Other Transmission System;



- (c) **Interconnector** and **Inter-jurisdictional Tie Line**; and
- (d) **Transmission** outages, **Load** growth and fuel security.

In the event that a proposed **Generator's** and **Generator Aggregator's**, **Dispatchable Demand Customer's Outage** has a detrimental effect on **Capacity Adequacy** or system security either in the **Transmission System** or in the **Other Transmission System**, the relevant **TSO** will highlight the shortfall to all **Generators**, **Generator Aggregators**, **Dispatchable Demand Customers** and **Suppliers**.

OC2.4.8 Any concerns which the **TSO** may have with the **Generation Outage Programme** must be notified to all **Generators**, **Generator Aggregators** and **Dispatchable Demand Customers** by the end of June in year 0.

OC2.4.9 Between the end of June in year 0 and the end of September in year 0 any concerns raised by the **TSO** shall be notified to **Generators**, **Generator Aggregators** and **Dispatchable Demand Customers**. The **TSO** will enter into discussions with **Generators**, **Generator Aggregators** and **Dispatchable Demand Customers** to find a resolution. If by the end of September in year 0 no resolution has been agreed and in the opinion of the **TSO** there is a capacity shortfall in year 1, the **TSOs** will jointly issue a **System Capacity Shortfall Warning**.

OC2.4.10 The **TSO** shall issue to each **Generator**, **Generator Aggregator** and **Dispatchable Demand Customer** a **Generation Outage Programme** for that **Generator**, **Generator Aggregator**, **Dispatchable Demand Customer** for years 1 to 3 by the last **Business Day** of September in year 0, including the **COP** for year 1.

OC2.4.11 Information relating to the **COP**, and **POP** and **IOP** shall be exchanged on a regular basis with the **Other TSO**.

OC2.5 ASSESSMENT OF CAPACITY ADEQUACY

In assessing **Capacity Adequacy** the **TSO** shall estimate **Demand** growth, formulate **Demand** forecasts and consider **Generation Units' Outages** and **Forced Outage Probabilities**.

~~OC2.5.1 Capacity Margin for Year 1~~

~~OC2.5.1.1 For year 1 the TSO shall:~~

- ~~(a) use **Generators', Generator Aggregators' and Dispatchable Demand Customers'** submissions for **Outages**;~~
- ~~(b) use **Generators' and Generator Aggregators'** submissions for **Forced Outage Probabilities**;~~
- ~~(c) in a separate exercise, use the **TSO's** assessment of the **Generators' and Generator Aggregators' Forced Outage Probabilities, Generators'** submissions and historical data; and~~
- ~~(d) based on (a), (b), (c) and **Demand** forecasts the **TSO** shall promulgate an **Availability** forecast, a **Demand** forecast, the capacity margin and a **Capacity Adequacy Indicator** for each daily peak of year 1. This information shall be published on the **TSO** website at 15.00 on the first **Business Day** of October in year 0 and will be updated on the first **Business Day** of each month until December of year 1.~~

~~OC2.5.1.2 If there is a deficit indicated in any week, the **TSO** and the **Other TSO** shall jointly issue a **System Capacity Shortfall Warning**.~~

OC2.5.21 Capacity Margin for Year 0

OC2.5.21.1 Each ~~day~~ week during year 0 after ~~the fifth (5th) Business Day of January~~ for a forecast period of four weeks, the **TSO** shall:

- (a) use **Generators', Generator Aggregators' and Dispatchable Demand Customers'** submissions for **Outages**;
- (b) use **Generators' and Generator Aggregators'** submissions for **Forced Outage Probabilities**; use **Generators' and Generator Aggregators'** submissions for **Forced Outage Probabilities**;
- (c) in a separate exercise, use the **TSO's** assessment of the **Generators' and Generator Aggregators' Forced Outage Probabilities, Generators'** submissions and historical data; and
- (d) based on (a), (b), (c) and **Demand** forecasts the **TSO** shall formulate an **Availability** forecast, a **Demand** forecast, the capacity margin and a **Capacity Adequacy Indicator** for each daily peak. This information shall be published on the **TSO** website at 15.00 ~~each Business Day every Thursday and updated the following Monday for that forecast period.~~

OC2.5.21.2 If there is a deficit indicated on any day, the **TSO** and the **Other TSO** shall jointly issue a **System Capacity Shortfall Warning**.

OC2.6 CHANGES TO THE COMMITTED OUTAGE PROGRAMME WITHIN THE IMPLEMENTATION YEAR (YEAR 0)

OC2.6.1 A request for a change to an **Outage** included in the **Committed Outage Programme** or an additional **Outage** may be initiated either by the **TSO** or by a **Generator, Generator Aggregator** or **Dispatchable Demand Customer** at any time.

OC2.6.2 Request initiated by the **TSO**

OC2.6.2.1 The **TSO** may at any time request from a **Generator, Generator Aggregator** or **Dispatchable Demand Customer** a change in the timing or duration of any **Outage** of one of the **Generator's Generation Units** or **Dispatchable Demand Customer's Demand Side Units** or an **Individual Demand Site** which constitutes the **Demand Side Unit** in the **Committed Outage Programme**.

OC2.6.2.2 A **Generator, Generator Aggregator** or **Dispatchable Demand Customer** may respond either by declining the request, or by agreeing to the request (in which case the **COP** shall be deemed to be amended accordingly). **Generators, Generator Aggregators** and **Dispatchable Demand Customers** shall make every reasonable effort to co-operate with changes requested by the **TSO**.

OC2.6.2.3 If a **Generator, Generator Aggregator** or **Dispatchable Demand Customer** responds by agreeing to the request subject to specific conditions, the **TSO** may respond by either confirming agreement to those conditions, in which case the conditions specified by the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** shall be deemed to have been accepted, or by declining agreement. Where the **TSO** agrees to the conditions the **COP** shall be deemed to be amended accordingly. Where the **TSO** declines to agree to the conditions, then the **TSO** may negotiate with the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** as to revised or alternative conditions, which would be



acceptable.

OC2.6.3 Outage change initiated by a Generator, Generator Aggregator or Dispatchable Demand Customer

OC2.6.3.1 **Generators, Generator Aggregators or Dispatchable Demand Customers Aggregators** may at any time request the **TSO** for a change in the timing or duration of any **Outage** of one of the **Generator's Generation Units** or **Dispatchable Demand Customer's Demand Side Units** or an **Individual Demand Site** which constitutes the **Demand Side Unit** in the **Committed Outage Programme**.

OC2.6.3.2 Where a change to the **COP** is proposed by a **Generator, Generator Aggregator or Dispatchable Demand Customer**, the **TSO** shall evaluate whether the change is likely to have a detrimental effect on **Capacity Adequacy** or on the secure operation of the **Transmission System**. This shall be done within a reasonable time frame, taking into consideration the extent of the change and the timing of the **Outage**

OC2.6.3.3 Where, in accordance with OC2.5, the request is not likely to have a detrimental effect on **Capacity Adequacy** or the secure operation of the **Transmission System** then the **TSO** shall amend the **COP** accordingly. The **Generator, Generator Aggregator or Dispatchable Demand Customer** shall be advised by the **TSO** that the change has been accepted.

OC2.6.3.4 Where, in accordance with OC2.5, the **Outage** change is likely to have a detrimental effect on **Capacity Adequacy** or requirements for the secure operation of the **Transmission System** then the **TSO** shall not amend the **COP**. The **TSO** shall contact the **Generator, Generator Aggregator or Dispatchable Demand Customer** and inform the **Generator, Generator Aggregator or Dispatchable Demand Customer** that the change to the **COP** has not been accepted, the **TSO** shall at the **Generator's, Generator Aggregator's or Dispatchable Demand Customer's** request enter into discussions with the **Generator, Generator Aggregator or Dispatchable Demand Customer** to facilitate an alternative modification which may meet the requirements of the **Generator, Generator Aggregator or Dispatchable Demand Customer** while not having an unacceptable effect on **Capacity Adequacy** or requirements for secure operation of the **Transmission System**. In the event that the **Generator, Generator Aggregator or Dispatchable Demand Customer** wishes to avail of an alternative modification, it shall submit a change request in accordance

with OC2.6.3.1.

OC2.6.3.5 Where the **Generator, Generator Aggregator or Dispatchable Demand Customer** has been notified that the change to the **COP** has not been accepted, but in the view of the **Generator, Generator Aggregator or Dispatchable Demand Customer** it must force the **Generation Unit or Demand Side Unit** to be unavailable due to technical or safety issues, then the **Generator, Generator Aggregator, Dispatchable Demand Customer** shall inform the **TSO** immediately in accordance with the requirements to submit an **Availability Notice**.

OC2.7 OTHER INFORMATION TO BE NOTIFIED

OC2.7.1 **Generators** will inform the **TSO** of any proposed maintenance, in addition to **Outages**, which will, or is likely to, affect the capability of the **Generation Unit** to provide **Ancillary Services**, as soon as is reasonably possible.

OC2.7.2 The **TSO** may, where security of supply or the secure operation of the **Transmission System** or the **Other Transmission System** would be at risk, request alterations to maintenance notified under Section OC2.7.1. The **TSO** shall make reasonable endeavours to give as much notice as possible for such requests for alterations. Where the **TSO** makes such a request, the **Generator, Generator Aggregator or Dispatchable Demand Customer** shall use reasonable endeavours to comply with the request in arriving at the **User's** final programme for such maintenance.

OC2.7.3 The **DSO** shall co-operate with the **TSO** and **Embedded Generators** and **Dispatchable Demand Customers** in all phases of **Outage** planning to promote **Capacity Adequacy** and ensure system security.



NEW VERSION

OC2 OPERATIONAL PLANNING

OC2.1 INTRODUCTION

Secure operation of an electricity system requires that maintenance of production facilities (**Generation Units, Aggregated Generating Units and Demand Side Units**) should be carried out in a timely and orderly fashion. This is essential in order to enable the **TSO** to fulfil its obligations relating to operation of the **Transmission System**, and to enable **Generators, Generator Aggregators or Dispatchable Demand Customers** to plan their **Outages** in an orderly way with due regard to **Plant** requirements and resource limitations. The mechanisms by which this is achieved are formalised in this Operational Planning Code (Generation).

OC2.2 OBJECTIVE

The primary objective of OC2 is to promote the development and implementation of a co-ordinated **Generation Outage Programme**, consistent with security of supply and requirements for the secure and economic operation of the **Transmission System** and the **Other Transmission System**, and with the needs of **Generators, Generator Aggregators or Dispatchable Demand Customers** in respect of **Plant** maintenance requirements and resource limitations.

In order to achieve this objective, OC2 defines:

- a) the procedure for formal notification of **Outages** by **Generators, Generator Aggregators, Dispatchable Demand Customers and Demand Side Aggregators** to the **TSO**;
- b) the procedures by which the **Indicative, Provisional and Committed Outage Programmes** are reviewed by the **TSO**, in consultation with **Generators, Generator Aggregators, Dispatchable Demand Customers or Demand Side Aggregators**; and
- c) the co-ordination of **Outage** planning and the interchange of **Outage** schedules with the **Other TSO**.

OC2 shall apply to all proposed **Outages** that may affect the ability of a **Generation Unit, Aggregated Generating Unit and Demand Side Unit** to achieve, in accordance with its **Registered Operating Characteristics**, either its full **Registered Capacity**, appropriate to each **Registered Fuel**, or its **Demand Reduction Capability** as the case may be.

OC2.7 also requires **Generators, Generator Aggregators** and **Dispatchable Demand Customers** to inform the **TSO** of other proposed maintenance of a **Generation Unit** or **Aggregated Generating Unit, Demand Side Unit** or any associated **Plant** or **Apparatus**, where such maintenance will affect the availability of **Ancillary Services** in respect of that **Generation Unit**.

OC2.3 SCOPE

Operational Planning applies to the **TSO** and to the following, each of which is a **User** under this OC2:

- (a) **Generators** which for the purposes of OC2 includes all **Generators** with **Registered Capacity** greater than 5 MW or which are subject to **Central Dispatch**;
- (b) **Generator Aggregators**;
- (c) **Dispatchable Demand Customers**; and
- (d) The **Distribution System Operator (DSO)**.

OC2.4 OUTAGE SCHEDULING

OC2.4.1 Throughout OC2 the current year shall be defined as year 0, the following year as Year 1, and so on. The **Outage** planning process in respect of a **Generation Unit, Aggregated Generating Unit** and **Demand Side Unit** shall commence not later than one (1) year prior to the **Scheduled Operational Date** or from the date of the relevant agreements, whichever is the later.

OC2.4.2 In rolling over the **Generation Outage Programme** from one year to the next, for every year except the first year of the planning process:

- (a) submissions by the **Generator, Generator Aggregator** and/or **Dispatchable Demand Customer** for year 2 should reflect the current **Provisional Outage Programme** for year 3; and
- (b) submissions by the **Generator, Generator Aggregator** and/or **Dispatchable Demand Customer** for year 1 should reflect the current **Provisional Outage Programme** for year 2.

except, in any such case, to the extent that the **Generator, Generator Aggregator**

or **Dispatchable Demand Customer** is reasonably responding to changed circumstances. This does not require **Generators, Generator Aggregators** or **Dispatchable Demand Customers** to explain changes unless required to do so by the **TSO**. The aggregate of all **Generators' Outage Programmes** is the **Generation Outage Programme** that will comprise the **COP** and **POP**.

OC2.4.3 By the end of March in year 0, **Generators, Generator Aggregators** and **Dispatchable Demand Customers** shall submit to the **TSO**, for each **Generation Unit, Aggregated Generating Unit** or **Demand Side Unit**, details of **Outages** and estimates of the **Forced Outage Probabilities** for inclusion in:

- (a) the **Committed Outage Programme (COP)** for year 1. Other than in the first year after the planning process has commenced, this will be based on the previous year's **Provisional Outage Programme** for year 2, which period through the passage of time has now become year 1, and any changes may only reflect the **Generator's, Generator Aggregator's, and Dispatchable Demand Customer's** reasonable response to changed circumstances;
- (b) the **Provisional Outage Programme (POP)** for years 2 and 3.

In the case of **Aggregated Generating Units**, and **Demand Side Units** which consist of **Aggregated Demand Sites**, the **Generator Aggregator** or **Dispatchable Demand Customer** shall provide the aggregated **Outages**, and upon request from the **TSO** the **Generator Aggregator** or **Dispatchable Demand Customer** shall provide the **Outage** for each individual site, in a reasonable time period.

Generators, Generator Aggregators and **Dispatchable Demand Customers** shall specify with regard to each of their **Generation Units, Aggregated Generating Units** or **Demand Side Units**, the start date and time and the duration of each **Outage**.

OC2.4.4 In scheduling **Outages**, and in relation to all other matters under OC2, the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** must act reasonably and in good faith. Without limitation to such obligation, each **Generator, Generator Aggregator** and **Dispatchable Demand Customer** should act in accordance with **Good Industry Practice** in planning their **Outages** and, in particular, so as to avoid a situation arising in which a **Generator, Generator Aggregator** or **Dispatchable Demand Customer** is obliged to schedule an **Outage** at short notice by reason of obligations imposed upon the **Generator, Generator**

Aggregator or Dispatchable Demand Customer by statute as a consequence of the **Generator, Generator Aggregator or Dispatchable Demand Customer** not having planned in accordance with **Good Industry Practice**, for example, by not having planned sufficiently in advance its **Outages** for any statutory time limit.

OC2.4.5 When submitting proposed **Outages** for inclusion in the **COP, POP and IOP, Generators, Generator Aggregators and Dispatchable Demand Customers** shall, unless they reasonably substantiate that an **Outage** is inflexible, specify:

- (a) an alternative preferred window, or alternative preferred windows, of opportunity within each year for any **Outage**;
- (b) the minimum **Outage** duration which would be acceptable, if less than the scheduled **Outage** duration;
- (c) situations where the paralleling of **Outages** of two or more of its **Generation Units, Aggregated Generating Units, Demand Side Units or Aggregated Demand Side Units** may be required, desirable, undesirable or not possible;
- (d) a priority order associated with the various **Outages** scheduled by the **Generator, Generator Aggregators and Dispatchable Demand Customer**;
- (e) any **Outages** where it is particularly desirable that they should take place within the year scheduled; or
- (f) any **Outage** where its timing is dependent on **Generation Unit** run hours, equivalent run hours or starts.

OC2.4.6 **Generators, Generator Aggregators, Dispatchable Demand Customers** are required to signal adequately in advance major **Outages** which could impact on capacity adequacy or on the **TSO's** transmission outage maintenance and development. In rolling over the **Generation Outage Programme** from one year to the next each **Generator, Generator Aggregator and Dispatchable Demand Customer** shall not be constrained in making any submission by any previous **Provisional Outage Programme**.

OC2.4.7 Between March and June of year 0, the **TSO** shall carry out a security analysis of years 1 to 7 in light of proposed **Outages** and other relevant matters including:

- (a) **Outages** of other **Generation Units, Aggregated Generating Units and Demand Side Units**;
- (b) **Outages** of **Generation Units, Aggregated Generating Units and Demand Side Units** on the **Other Transmission System**;



- (c) **Interconnector** and **Inter-jurisdictional Tie Line**; and
- (d) **Transmission** outages, **Load** growth and fuel security.

In the event that a proposed **Generator's** and **Generator Aggregator's**, **Dispatchable Demand Customer's Outage** has a detrimental effect on **Capacity Adequacy** or system security either in the **Transmission System** or in the **Other Transmission System**, the relevant **TSO** will highlight the shortfall to all **Generators**, **Generator Aggregators**, **Dispatchable Demand Customers** and **Suppliers**.

OC2.4.8 Any concerns which the **TSO** may have with the **Generation Outage Programme** must be notified to all **Generators**, **Generator Aggregators** and **Dispatchable Demand Customers** by the end of June in year 0.

OC2.4.9 Between the end of June in year 0 and the end of September in year 0 any concerns raised by the **TSO** shall be notified to **Generators**, **Generator Aggregators** and **Dispatchable Demand Customers**. The **TSO** will enter into discussions with **Generators**, **Generator Aggregators** and **Dispatchable Demand Customers** to find a resolution. If by the end of September in year 0 no resolution has been agreed and in the opinion of the **TSO** there is a capacity shortfall in year 1, the **TSOs** will jointly issue a **System Capacity Shortfall Warning**.

OC2.4.10 The **TSO** shall issue to each **Generator**, **Generator Aggregator** and **Dispatchable Demand Customer** a **Generation Outage Programme** for that **Generator**, **Generator Aggregator**, **Dispatchable Demand Customer** for years 1 to 3 by the last **Business Day** of September in year 0, including the **COP** for year 1.

OC2.4.11 Information relating to the **COP** and **POP** shall be exchanged on a regular basis with the **Other TSO**.

OC2.5 ASSESSMENT OF CAPACITY ADEQUACY

In assessing **Capacity Adequacy** the **TSO** shall estimate **Demand** growth, formulate **Demand** forecasts and consider **Generation Units' Outages** and **Forced Outage Probabilities**.

OC2.5.1 Capacity Margin for Year 0

OC2.5.1.1 Each week during year 0 after for a forecast period of four weeks, the **TSO** shall:

- (a) use **Generators', Generator Aggregators' and Dispatchable Demand Customers'** submissions for **Outages**;
- (b) use **Generators' and Generator Aggregators'** submissions for **Forced Outage Probabilities**; use **Generators' and Generator Aggregators'** submissions for **Forced Outage Probabilities**;
- (c) in a separate exercise, use the **TSO's** assessment of the **Generators' and Generator Aggregators' Forced Outage Probabilities, Generators'** submissions and historical data; and
- (d) based on (a), (b), (c) and **Demand** forecasts the **TSO** shall formulate an **Availability** forecast, a **Demand** forecast, the capacity margin and a **Capacity Adequacy Indicator** for each daily peak. This information shall be published on the **TSO** website at 15.00 every Thursday and updated the following Monday for that forecast period.

OC2.5.1.2 If there is a deficit indicated on any day, the **TSO** and the **Other TSO** shall jointly issue a **System Capacity Shortfall Warning**.

OC2.6 CHANGES TO THE COMMITTED OUTAGE PROGRAMME WITHIN THE IMPLEMENTATION YEAR (YEAR 0)

OC2.6.1 A request for a change to an **Outage** included in the **Committed Outage Programme** or an additional **Outage** may be initiated either by the **TSO** or by a **Generator, Generator Aggregator or Dispatchable Demand Customer** at any time.

OC2.6.2 Request initiated by the **TSO**

OC2.6.2.1 The **TSO** may at any time request from a **Generator, Generator Aggregator or Dispatchable Demand Customer** a change in the timing or duration of any **Outage** of one of the **Generator's Generation Units or Dispatchable Demand Customer's Demand Side Units** or an **Individual Demand Site** which constitutes the **Demand Side Unit** in the **Committed Outage Programme**.

- OC2.6.2.2 A **Generator, Generator Aggregator** or **Dispatchable Demand Customer** may respond either by declining the request, or by agreeing to the request (in which case the **COP** shall be deemed to be amended accordingly). **Generators, Generator Aggregators** and **Dispatchable Demand Customers** shall make every reasonable effort to co-operate with changes requested by the **TSO**.
- OC2.6.2.3 If a **Generator, Generator Aggregator** or **Dispatchable Demand Customer** responds by agreeing to the request subject to specific conditions, the **TSO** may respond by either confirming agreement to those conditions, in which case the conditions specified by the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** shall be deemed to have been accepted, or by declining agreement. Where the **TSO** agrees to the conditions the **COP** shall be deemed to be amended accordingly. Where the **TSO** declines to agree to the conditions, then the **TSO** may negotiate with the **Generator, Generator Aggregator** or **Dispatchable Demand Customer** as to revised or alternative conditions, which would be acceptable.
- OC2.6.3 Outage change initiated by a **Generator, Generator Aggregator** or **Dispatchable Demand Customer**
- OC2.6.3.1 **Generators, Generator Aggregators** or **Dispatchable Demand Customers Aggregators** may at any time request the **TSO** for a change in the timing or duration of any **Outage** of one of the **Generator's Generation Units** or **Dispatchable Demand Customer's Demand Side Units** or an **Individual Demand Site** which constitutes the **Demand Side Unit** in the **Committed Outage Programme**.
- OC2.6.3.2 Where a change to the **COP** is proposed by a **Generator, Generator Aggregator** or **Dispatchable Demand Customer**, the **TSO** shall evaluate whether the change is likely to have a detrimental effect on **Capacity Adequacy** or on the secure operation of the **Transmission System**. This shall be done within a reasonable time frame, taking into consideration the extent of the change and the timing of the **Outage**
- OC2.6.3.3 Where, in accordance with OC2.5, the request is not likely to have a detrimental effect on **Capacity Adequacy** or the secure operation of the **Transmission System** then the **TSO** shall amend the **COP** accordingly. The **Generator, Generator Aggregator** or **Dispatchable Demand Customer** shall be advised by the **TSO** that

the change has been accepted.

OC2.6.3.4 Where, in accordance with OC2.5, the **Outage** change is likely to have a detrimental effect on **Capacity Adequacy** or requirements for the secure operation of the **Transmission System** then the **TSO** shall not amend the **COP**. The **TSO** shall contact the **Generator, Generator Aggregator or Dispatchable Demand Customer** and inform the **Generator, Generator Aggregator or Dispatchable Demand Customer** that the change to the **COP** has not been accepted, the **TSO** shall at the **Generator's, Generator Aggregator's or Dispatchable Demand Customer's** request enter into discussions with the **Generator, Generator Aggregator or Dispatchable Demand Customer** to facilitate an alternative modification which may meet the requirements of the **Generator, Generator Aggregator or Dispatchable Demand Customer** while not having an unacceptable effect on **Capacity Adequacy** or requirements for secure operation of the **Transmission System**. In the event that the **Generator, Generator Aggregator or Dispatchable Demand Customer** wishes to avail of an alternative modification, it shall submit a change request in accordance with OC2.6.3.1.

OC2.6.3.5 Where the **Generator, Generator Aggregator or Dispatchable Demand Customer** has been notified that the change to the **COP** has not been accepted, but in the view of the **Generator, Generator Aggregator or Dispatchable Demand Customer** it must force the **Generation Unit or Demand Side Unit** to be unavailable due to technical or safety issues, then the **Generator, Generator Aggregator, Dispatchable Demand Customer** shall inform the **TSO** immediately in accordance with the requirements to submit an **Availability Notice**.

OC2.7 OTHER INFORMATION TO BE NOTIFIED

OC2.7.1 **Generators** will inform the **TSO** of any proposed maintenance, in addition to **Outages**, which will, or is likely to, affect the capability of the **Generation Unit** to provide **Ancillary Services**, as soon as is reasonably possible.

OC2.7.2 The **TSO** may, where security of supply or the secure operation of the **Transmission System** or the **Other Transmission System** would be at risk, request alterations to maintenance notified under Section OC2.7.1. The **TSO** shall make reasonable endeavours to give as much notice as possible for such requests for alterations. Where the **TSO** makes such a request, the **Generator, Generator Aggregator or**



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

	Dispatchable Demand Customer shall use reasonable endeavours to comply with the request in arriving at the User's final programme for such maintenance.
OC2.7.3	The DSO shall co-operate with the TSO and Embedded Generators and Dispatchable Demand Customers in all phases of Outage planning to promote Capacity Adequacy and ensure system security.

MPID:	MPID 197
TITLE:	Controllable Wind Farm Extension
GRID CODE VERSION:	3.4
CLAUSE:	WFPS1.1 and Definitions
PROPOSED BY:	EirGrid
RECOMMENDED BY GCRP NO:	26
DATE OF APPROVAL:	9 th September 2010
DATE SENT TO CER:	8th December 2010

INTRODUCTION	
<p>This modification proposal is raised by EirGrid at the request of wind farm developers to clarify the rules applicable for extension to WFPS's. In particular it defines from a Grid Code perspective what an extension of an existing windfarm is. If it is not an extension the windfarm is a separate distinct windfarm and all the obligations in the Grid Code apply to the whole of this distinct unit. This would include ensuring the voltage regulation at the point did not interfere or hunt with another windfarm's voltage regulation system.</p>	
<p>RED LINE VERSION – it is proposed to modify the Grid Code text by adding the following text in blue and by deleting the text in red strike-through.</p>	

WFPS 1 CONTROLLABLE WIND FARM POWER STATION GRID CODE PROVISIONS

WFPS1.1 INTRODUCTION

All Generators connecting to the Transmission System are required to comply with the **Grid Code**. The **Grid Code** was originally developed with synchronous generators in mind. Since **Wind Turbine Generators (WTG)** do not have the same characteristics as synchronous generators, it was considered appropriate to develop a new set of **Grid Code** provisions specifically for **Controllable WFPSs**. This section of the **Grid Code** gives the specific requirements for **Controllable WFPSs**, and **WFPS Extensions** to pre-existing **Controllable WFPSs** where an extension to a **WFPS** shall be classified as one of the following two types:

- Transmission Connected Type A
A **WFPS Extension** which is not separately controllable.
- Transmission Connected Type B
A **WFPS Extension** which is separately controllable will be considered as a unique **WFPS** with the exception of its requirements to **WFPS1.6 Transmission System Voltage Requirements** which will be tested in aggregate with the existing **Controllable WFPS**.

Transmission Connected Type A **WFPS Extensions** and Transmission Connected Type B **WFPS Extensions** will be subject to full **Grid Code** Compliance testing at the discretion of the **TSO**. Where a **Controllable WFPS** has been granted derogations or exemptions from the **Grid Code** any **WFPS Extension** to that **Controllable WFPS** will be a Transmission Connected Type B **WFPS Extension**.

WFPS1.2 OBJECTIVE

The primary objective of WFPS1 is to establish the technical rules which **Controllable WFPSs** and **WFPS Extensions** must comply with in relation to their connection to and operation on the **Transmission System**.

WFPS1.3 SCOPE

WFPS1.3.1 WFPS1 applies to the following **Users**:

- (a) The **TSO**; ~~and~~;
- (b) **Grid Connected Controllable WFPSs**; and
- (c) **Grid Connected Controllable WFPS Extensions**.

DEFINITIONS

WFPS Extension

An increase to the **Registered Capacity** of any **Controllable WFPS**.



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

NEW VERSION

WFPS 1 CONTROLLABLE WIND FARM POWER STATION GRID CODE PROVISIONS

WFPS1.1 INTRODUCTION

All Generators connecting to the Transmission System are required to comply with the **Grid Code**. The **Grid Code** was originally developed with synchronous generators in mind. Since **Wind Turbine Generators (WTG)** do not have the same characteristics as synchronous generators, it was considered appropriate to develop a new set of **Grid Code** provisions specifically for **Controllable WFPSs**. This section of the **Grid Code** gives the specific requirements for **Controllable WFPSs** and **WFPS Extensions** to pre-existing **Controllable WFPSs** where an extension to a **WFPS** shall be classified as one of the following two types:

- Transmission Connected Type A
A **WFPS Extension** which is not separately controllable.
- Transmission Connected Type B
A **WFPS Extension** which is separately controllable will be considered as a unique **WFPS** with the exception of its requirements to **WFPS1.6 Transmission System Voltage Requirements** which will be tested in aggregate with the existing **Controllable WFPS**.

Transmission Connected Type A **WFPS Extensions** and Transmission Connected Type B **WFPS Extensions** will be subject to full **Grid Code** Compliance testing at the discretion of the **TSO**. Where a **Controllable WFPS** has been granted derogations or exemptions from the **Grid Code** any **WFPS Extension** to that **Controllable WFPS** will be a Transmission Connected Type B **WFPS Extension**.

WFPS1.2 OBJECTIVE

The primary objective of WFPS1 is to establish the technical rules which **Controllable WFPSs** and **WFPS Extensions** must comply with in relation to their connection to and operation on the **Transmission System**.

WFPS1.3 SCOPE

WFPS1.3.1 WFPS1 applies to the following **Users**:

- (a) The **TSO**;
- (b) **Grid Connected Controllable WFPSs**; and
- (c) **Grid Connected Controllable WFPS Extensions**.

DEFINITIONS

WFPS Extension

An increase to the **Registered Capacity** of any **Controllable WFPS**.

MPID:	MPID 202
TITLE:	Replace the term Commission with the term CER



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

GRID CODE VERSION:	3.4
CLAUSE:	Various
PROPOSED BY:	CER
RECOMMENDED BY GCRP NO:	26
DATE OF APPROVAL:	9 th September 2010
DATE SENT TO CER:	8th December 2010

INTRODUCTION

The Commission for Energy Regulation have proposed removing from the Grid Code all references to the CER as the Commission. The Commission for Energy Regulation should only be referred to as the CER in the Grid Code.

RED LINE VERSION – it is proposed to modify the Grid Code text by adding the following text in blue and by deleting the text in red strike-through.

GC.2.1 The objectives of the **General Conditions** are as follows:

- (a) to ensure, insofar as it is possible, that the various sections of the **Grid Code** work together, and work in practice, for the benefit of the operation of the **Power System** and for the benefit of the **TSO** and **Users**;
- (b) to provide a set of principles governing the status and development of the **Grid Code** and related issues, as approved by the ~~Commission~~ **CER**;
- (c) to provide an outline of how the **TSO**, the **Other TSO** and the **Regulatory Authorities** will cooperate with regard to **Grid Code** revisions and derogations to both **Sections Under Common Governance** and other **Grid Code** sections which may be considered to be relevant to the operation of the **SEM**.

GC.3 SCOPE

The **General Conditions** apply to the **TSO**, the ~~Commission~~ **CER**, and to all **Users** (which expression in these **General Conditions** means all persons (other than the **TSO**) to whom any individual section of the **Grid Code** applies).

GC.5 GRID CODE REVIEW PANEL

GC.5.1 The **TSO** shall establish and maintain the **Grid Code Review Panel** which shall be a standing body constituted to:

- (a) generally review and discuss the **Grid Code** and its workings;
- (b) review and discuss suggestions for amendments to the **Grid Code** which the **TSO**, the ~~Commission~~ **CER**, or any **User** may wish to submit to the **TSO** for consideration by the **Grid Code Review Panel** from time to time;

- (c) discuss what changes are necessary to the **Grid Code** arising out of any unforeseen circumstances referred to it by the **TSO** under GC.12; and
- (d) publish recommendations and ensure that **User** consultation upon such recommendations has occurred through **Grid Code Review Panel** members.

GC.5.2 The **Grid Code Review Panel** shall be governed by a constitution, which defines its scope, membership, duties, and rules of conduct and operation as approved by the **Commission CER**.

GC.7 GRID CODE REVISIONS

GC.7.1 All revisions to the **Grid Code** must be reviewed by the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) prior to application to the **Commission CER** by the **TSO**. Where the **TSO** identifies or receives a proposed revision that affects a **Section Under Common Governance**, it shall bring it to the attention of the **Other TSO**. All proposed revisions from **Users**, the **Commission CER**, or the **TSO** will be brought before the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) by the **TSO** for consideration. In the event that the **TSO**, acting reasonably, considers that proposed revisions are frivolous or repeated, the **TSO** may propose to the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) that these proposed revisions are not to be considered. However, in the event that any member of the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) decides that the revision is worthwhile, it shall be reviewed. The **TSO** shall then inform the proposer of the decision, with an accompanying explanation if required. If the proposing **User** is not satisfied with the response from the **TSO**, they can bring it to the attention of the **Commission CER**.

The **TSO** will advise the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant), all **Users**, and the **Commission CER** of all proposed revisions to the **Grid Code** with notice of no less than 10 days in advance of the next scheduled meeting of the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant).

GC.7.2 Following review of a proposed revision by the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant), the **TSO** will apply to the **Commission CER** for revision of the **Grid Code** based on the **TSO** recommendation and shall make representation of all other views or considerations including those of the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant). The **TSO**, in

applying to the **Commission CER**, shall also notify each **User** of the proposed revision and other views expressed by the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) and **Users** so that each **User** may consider making representations directly to the **Commission CER** regarding the proposed revision.

GC.7.3 The **Commission CER** shall consider the proposed revision, other views, and any further representations and shall determine whether the proposed revision should be made and, if so, whether in the form proposed or in an amended form. Where amendments to the revision are contemplated by the **Commission CER**, the **Commission CER** shall consult the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant), the **TSO**, and **Users** as appropriate. Determination on a modification to a **Section Under Common Governance** shall be made by the **Commission CER** in accordance with its procedure that is in place to approve modifications to **Sections Under Common Governance**.

GC.7.4 Having been so directed by the **Commission CER** that the applied for revision or amended revision shall be made, the **TSO** shall notify each **User** of the revision at least 14 **Business Days** prior to the revision taking effect, and the revision shall take effect (and this **Grid Code** shall be deemed to be amended accordingly) from (and including) the date specified in such notification or other such date as directed by the **Commission CER**. The date may be modified to ensure that the revision is implemented simultaneously in both jurisdictions on the island of Ireland.

GC.9 DEROGATIONS

GC.9.1 If a **User** finds that it is, or will be, unable to comply with any provision of the **Grid Code**, then it shall without delay report such non-compliance to the **TSO** and shall, subject to the provisions of GC.9.2 make such reasonable efforts as are required to remedy such non-compliance as soon as reasonably practicable. Where the **TSO** is aware or should reasonably be aware that a non-compliance may have an impact on the **Other Transmission System** or on the operation of the **SEM**, the **TSO** shall provide details of the non-compliance to the **Other TSO**.

GC.9.2 Where the non-compliance is:

- (a) with reference to **Plant** and/or **Apparatus** connected to the **Transmission System** and is caused solely or mainly as a result of a revision to the **Grid Code**; or



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

(b) with reference to **Plant** and/or **Apparatus** which is connected, approved to connect, or for which approval to connect to the **Transmission System** is being sought,

and the **User** believes either that it would be unreasonable (including cost and technical considerations) to require it to remedy such non-compliance or that it should be granted an extended period to remedy such non-compliance, it shall promptly submit to the **Commission CER** a request for a derogation from such provision in accordance with the requirements of GC.9.3 and shall provide the **TSO** with a copy of such a request.

GC.9.3

A request for derogation from any provision of the **Grid Code** shall contain:

- (a) the version number and the date of the **Grid Code** which includes the provision against which the non-compliance or predicted non-compliance was identified;
- (b) identification of the **Plant** and/or **Apparatus** in respect of which a derogation is sought and, if relevant, the nature and extent to which the non-compliance exists;
- (c) identification of the provision with which the **User** is, or will be, unable to comply;
- (d) the reason for the non-compliance; and
- (e) the date by which compliance will be achieved (if remedy of the non-compliance is possible) subject to GC.9.2.

GC.9.4

If the **TSO** finds that it is, or will be, unable to comply with any provision of the **Grid Code**, then it shall, subject to the remaining provisions of GC.9 make such reasonable efforts as are required to remedy such non-compliance as soon as reasonably practicable.

GC.9.5

In the case where the **TSO** requests derogation, the **TSO** shall submit the information set out in GC.9.3 to the **Commission CER**.

GC.9.6

On receipt of any request for derogation, the **Commission CER** shall promptly consider such request. Where the **Commission CER** identifies that a derogation request may impact on the on the **Other Transmission System** or the operation of the **SEM**, the

Commission CER shall liaise with the **Regulatory Authority** in Northern Ireland in its consideration of the request. Provided that the **Commission CER** considers that the grounds for the derogation are reasonable, then the **Commission CER** shall grant such derogation unless the derogation would, or it is likely that it would, have a materially adverse impact on the security and stability of the **Transmission System** or the **Other Transmission System** or impose unreasonable costs on the operation of the **Transmission System** or on other **Users**. In its consideration of a derogation request by a **User**, the **Commission CER** may contact the relevant **User** and/or the **TSO** to obtain clarification of the request, or to obtain further information regarding the request, or to discuss changes to the request. Where the derogation request may have an impact on the **Other Transmission System** or the operation of the **SEM**, the **TSO** shall liaise with the **Other TSO** prior to providing an assessment to the **Commission CER**. The **TSO** may also contact the relevant **User** to obtain clarification of the request, or obtain further information regarding the request, or to discuss changes to the request. The **User** shall respond to all such requests without undue delay.

Derogations from any provision of the **Grid Code** shall contain:

- (a) the version number and the date of the **Grid Code** which includes the provision against which the derogation applies;
- (b) identification of the provision with which the derogation applies;
- (c) identification of the **Plant** and/or **Apparatus** in respect of which a derogation applies and, if relevant, the nature and extent to which the derogation applies including alternate compliance provisions;
- (d) the reason for the non-compliance requiring derogation;
- (e) the date by which the derogation ends if compliance will be achieved, or by which such derogation expires.

GC.9.7 To the extent of any derogation granted in accordance with this GC.9, the **TSO** and/or the **User** (as the case may be) shall be relieved from its obligation to comply with the applicable provision of the **Grid Code** and shall not be liable for failure to so comply but shall comply with any alternate provisions as set forth in the derogation.

GC.9.8 The **TSO** shall:

- (a) keep a register of all derogations which have been granted, identifying the company and **Plant** in respect of whom the derogation has been granted, the relevant provision of the **Grid Code** and the **Grid Code** version number, the period of the derogation and the extent of compliance to the provision;
- (b) on request from any **User** or **User** of the **Other Grid Code**, provide a copy of such register of derogations to such **User**; and
- (c) publish this register on the **TSO's** website.

GC.9.9 Where a material change in circumstance has occurred a review of any existing derogations, and any derogations under consideration, may be initiated by the **Commission CER** at the request of the **Commission CER**, the **TSO**, or **Users**.

GC.11 ASSISTANCE IN IMPLEMENTATION

GC.11.1 The **TSO** has a duty to implement, and comply with, the **Grid Code** as approved by the **Commission CER**.

GC.11.2 In order to fulfil its duty to implement the **Grid Code** the **TSO** may, in certain cases, need access across boundaries, or may need services and/or facilities from **Users**. This could, for example, include **De-Energising** and/or disconnecting **Plant** and/or **Apparatus**. It is hoped that these cases would be exceptional and it is not, therefore, possible to envisage precisely or comprehensively what the **TSO** might reasonably require in order to put it in a position to be able to carry out its duty to implement the **Grid Code** in these circumstances.

GC.11.3 Accordingly, all **Users** are required not only to abide by the letter and spirit of the **Grid Code**, which shall include providing the **TSO** with such rights of access, services and facilities as provided for in appropriate agreements, and complying with such instructions as the **TSO** may reasonably require in implementing the **Grid Code**.

PC.6.6 System Planning Data

PC.6.6.1 The **Planning Code** requires that, as soon as is practical, and not later than a date which is the earlier of 18 months prior to the scheduled **Operational Date** or six months after

the signing of the **Connection Agreement**, unless otherwise directed by the **Commission CER**, all data requirements as stated in the Appendix to the Planning Code, not previously requested by the **TSO** and supplied by the **User**, will be submitted by the **User** to the **TSO**. This will include confirming any estimated values assumed for planning purposes or, where practical, replacing them by validated actual values and by updated estimates for the future and by updating forecasts for **Forecast Data** items such as **Demand**. As more accurate data becomes available, due to completion of detailed design, test measurements/results or any other sources, this information will be submitted by the **User** to the **TSO** as soon as practicable and not later than the **Operational Date**.

CC.6 RELEVANT TECHNICAL STANDARDS APPLYING TO USER PLANT AND APPARATUS

CC.6.1 All **User Plant** and **Apparatus** associated with the connection to the **Transmission System** shall comply with the:

- (a) Irish and EU Law and
- (b) the relevant European standards; or
- (c) if there is no relevant European standards, such other relevant standard which is in common use in the European Union;

in each case as current at the date of the **User's** applicable **Connection Agreement**. Where the **TSO**, acting reasonably, determines that in order to ensure safe and co-ordinated operation of a **User's Plant** and/or **Apparatus** with the **Transmission System**, there is a requirement for supplemental specifications and/or standards to apply to the design of a **User's Plant** and/or **Apparatus**, the **TSO** shall notify the **User** and the **User** shall comply with the additional requirements. On request from the **User**, the **TSO** shall provide reasonable evidence as necessary to demonstrate the need for the supplemental specifications and/or standards.

CC.6.2 In the event that any standard or specification with which a **User's Plant** and/or **Apparatus** is required to comply under CC.6.1 is amended, the **TSO** will, having consulted with the affected **Users** and with the **Grid Code Review Panel**, make a recommendation to the **Commission CER** as to what action should be taken.

OC8.8 APPROVAL FOR OPERATIONAL TESTING

OC8.8.1 Following receipt of an **Operational Test** proposal and evaluation of the **Operational Test's** likely impact, including discussions of test requirements with the **User** requesting the **Operational Test** and with **Operationally Affected Users** as appropriate, the **TSO** will decide if approval for the requested **Operational Test** is granted.

OC8.8.2 The criteria for approving **Operational Test** include:

- (a) the impact of the **Operational Test** on **Transmission System** operation security
- (b) the impact of the **Operational Test** on **Transmission System** operation economics or on the economics of the operation of the **Other Transmission System**;
- (c) the impact of the **Operational Test** on other **Users'** Systems
- (d) the effect of the **Operational Test** on continuity and quality of electricity supply

OC8.8.3 On approval by the **TSO** of an **Operational Test** proposed by a **User**, the **TSO** shall contact the **User** outlining the proposed **Dispatch** procedure and schedule.

OC8.8.3.1 On receipt of the proposed **Dispatch** procedure and schedule of the **Operational Test**, the **Test Proposer** shall notify the **TSO** without undue delay, of the **Test Proposer's** acceptance or rejection of the proposed **Dispatch** procedure and schedule for the test.

OC8.8.3.2 On notification of rejection of the proposed **Dispatch** procedure and schedule for the **Operational Test** by the **Test Proposer**, then the **Operational Test** shall not take place. The **Test Proposer** may enter into discussions with the **TSO** as to an alternative schedule for the **Operational Test**, or may request a different **Operational Test** or may request the **Operational Test** at an alternative time.

OC8.8.3.3 On notification of acceptance of the proposed **Dispatch** procedure and schedule for the **Operational Test** by the **Test Proposer**, the **TSO** shall inform other **Users** as to the scheduled time and nature of the test, if in the opinion of the **TSO** those **Users** will or may be significantly affected by the test, or otherwise as dictated by standing arrangements.

OC8.8.3.4 If **Operationally Affected Users** are not satisfied with the proposed **Operational**



Test, they shall advise the **TSO** of their concerns. The **TSO** shall not cancel proposed **Operational Test** unless these objections are reasonable. If **Operationally Affected Users** are still not satisfied with the Operational Test being approved, then they may appeal the decision to the **Commission CER** in accordance with OC8.12.

OC8.8.3.5 Notification by the **TSO** to the **Test Proposer** of the proposed **Dispatch** procedure and schedule for an **Operational Test**, or notification by the **Test Proposer** to the **TSO** of acceptance of the proposed **Dispatch** procedure and schedule, does not constitute a **Dispatch Instruction** from the **TSO** to the **Test Proposer**.

OC8.8.4 On rejection of the proposed **Operational Test** by the **TSO**, the **Test Proposer** may enter into discussions with the **TSO** as to an alternative schedule for the **Operational Test**, or may request a different **Operational Test** or may request the **Operational Test** at an alternative time. If the amended proposal for an **Operational Test** is approved by the **TSO**, and the **User** requesting the **Operational Test** is a **Generator**, then OC8.8.3 shall apply.

OC8.8.5 If the **Test Proposer** is not satisfied that there are reasonable grounds for rejecting the proposed **Operational Test**, then they may appeal to the **Commission CER** according to OC8.12.

OC8.11 TEST REPORTING

OC8.11.1 Upon conclusion of the scheduled time for an **Operational Test** the **Test Proposer** shall notify the **TSO** as to whether the test has been completed, or sections of the test if divided into sections under OC8.6.2.3 have been completed.

OC8.11.2 At the conclusion of the **Operational Test**, the **Test Proposer** shall be responsible for preparing a written report on the **Operational Test** (the "**Final Report**") which shall be available within three months of the conclusion of the **Operational Test** to the **TSO**, **Operationally Effected Users** and the **Commission CER** on request.

OC8.11.3 The **Final Report** shall not be submitted to any person who is not a representative of the **TSO** or the **Test Proposer** unless the **TSO** and the **Test Proposer** having reasonably considered the confidentiality issues arising, shall have unanimously approved such submission.

OC8.11.4 The **Final Report** shall include a description of the **Plant** and/or **Apparatus** tested and a description of the **System Test** carried out together with the results, conclusions and recommendations as they relate to the **TSO** and **Operationally Affected Users**.

OC8.12 DISPUTES

OC8.12.1 **Operationally Affected Users** who consider that the implementation of the proposed **Operational Test** will have a significant negative impact on them may appeal to the **Commission CER** providing details of their objections.

OC8.12.2 The **Test Proposer** has right of appeal to the **Commission CER** if it considers that rejection of the proposed **Operational Test** is unreasonable.

OC10.8 DISPUTATION OF ASSESSMENT OF NON-COMPLIANCE BY THE A USER

OC10.8.1 In the event that a **User** has received notification from the **TSO** of an assessment of non-compliance and/or application of a **Post Event Notice** under **OC7** then the **User** may reply to the **TSO** disputing in good faith the validity of either the assessment of non-compliance and/or the content of the **Post Event Notice**, detailing the grounds on which the validity is being disputed. Any disputation should be submitted within 12 hours although additional information in support of the disputation may follow within two **Business Days**.

OC10.8.2 If a **User** submits a disputation to the **TSO** under OC10.8.1, then the **TSO** shall consider the substance of the **User's** disputation. The **TSO** may, where the **TSO** considers appropriate, communicate with the **User** to clarify aspects of the assessment of non-compliance or the **User's** disputation.

OC10.8.3 The **TSO** shall determine the validity of the **User's** disputation, and shall inform the **User** within five **Business Days** as to its decision. The **TSO** shall alter or revise any assessment of non-compliance and/or **Post Event Notices** as appropriate.

OC10.8.4 In the event that there is still disagreement as to the outcome, the dispute shall if requested by either the **TSO** or the **User**, be referred to the **Commission CER**.

DEFINITIONS

Commission

The Commission for Energy Regulation (CER)

Grid Code

This code prepared by the TSO pursuant to section 33 of the Act, and approved by the Commission CER, as from time to time revised, amended, supplemented or replaced with the approval of or at the instance of the Commission CER.

Regulatory Authority

The authority appointed under legislation to regulate the electricity industry in the respective jurisdiction. In the Republic of Ireland it is the Commission CER and in Northern Ireland it is NIAUR (Northern Ireland Authority for Utility Regulation).

Use of System Tariffs

Tariffs set by the TSO subject to approval by the Commission CER for use of the Transmission System.

NEW VERSION

GC.2.1

The objectives of the **General Conditions** are as follows:

- a) to ensure, insofar as it is possible, that the various sections of the **Grid Code** work together, and work in practice, for the benefit of the operation of the **Power System** and for the benefit of the **TSO** and **Users**;
- b) to provide a set of principles governing the status and development of the **Grid Code** and related issues, as approved by the CER;
- c) to provide an outline of how the **TSO**, the **Other TSO** and the **Regulatory Authorities** will cooperate with regard to **Grid Code** revisions and derogations to both **Sections Under Common Governance** and other **Grid Code** sections which may be considered to be relevant to the operation of the **SEM**.

GC.3 SCOPE

The **General Conditions** apply to the **TSO**, the CER, and to all **Users** (which expression in these **General Conditions** means all persons (other than the **TSO**) to whom any individual section of the **Grid Code** applies).

GC.5 GRID CODE REVIEW PANEL

GC.5.1 The **TSO** shall establish and maintain the **Grid Code Review Panel** which shall be a standing body constituted to:

- a) generally review and discuss the **Grid Code** and its workings;
- b) review and discuss suggestions for amendments to the **Grid Code** which the **TSO**, the CER, or any **User** may wish to submit to the **TSO** for consideration by the **Grid Code Review Panel** from time to time;
- c) discuss what changes are necessary to the **Grid Code** arising out of any unforeseen circumstances referred to it by the **TSO** under GC.12; and
- d) publish recommendations and ensure that **User** consultation upon such recommendations has occurred through **Grid Code Review Panel** members.

GC.5.2 The **Grid Code Review Panel** shall be governed by a constitution, which defines its scope, membership, duties, and rules of conduct and operation as approved by the CER.

GC.7 GRID CODE REVISIONS

GC.7.1 All revisions to the **Grid Code** must be reviewed by the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) prior to application to the CER by the **TSO**. Where the **TSO** identifies or receives a proposed revision that affects a **Section Under Common Governance**, it shall bring it to the attention of the **Other TSO**. All proposed revisions from **Users**, the CER, or the **TSO** will be brought before the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) by the **TSO** for consideration. In the event that the **TSO**, acting reasonably, considers that proposed revisions are frivolous or repeated, the **TSO** may propose to the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) that these proposed revisions are not to be considered. However, in the event that any member of the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) decides that the revision is worthwhile, it shall be reviewed. The **TSO** shall then inform the proposer of the decision, with an accompanying explanation if required. If the proposing **User** is not satisfied with the response from the **TSO**, they can bring it to the attention of the CER.

The **TSO** will advise the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant), all **Users**, and the CER of all proposed revisions to the **Grid**



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

Code with notice of no less than 10 days in advance of the next scheduled meeting of the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant).

GC.7.2 Following review of a proposed revision by the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant), the **TSO** will apply to the CER for revision of the **Grid Code** based on the **TSO** recommendation and shall make representation of all other views or considerations including those of the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant). The **TSO**, in applying to the CER, shall also notify each **User** of the proposed revision and other views expressed by the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant) and **Users** so that each **User** may consider making representations directly to the CER regarding the proposed revision.

GC.7.3 The CER shall consider the proposed revision, other views, and any further representations and shall determine whether the proposed revision should be made and, if so, whether in the form proposed or in an amended form. Where amendments to the revision are contemplated by the CER, the CER shall consult the **Grid Code Review Panel** or the **Joint Grid Code Review Panel** (where relevant), the **TSO**, and **Users** as appropriate. Determination on a modification to a **Section Under Common Governance** shall be made by the CER in accordance with its procedure that is in place to approve modifications to **Sections Under Common Governance**.

GC.7.4 Having been so directed by the CER that the applied for revision or amended revision shall be made, the **TSO** shall notify each **User** of the revision at least 14 **Business Days** prior to the revision taking effect, and the revision shall take effect (and this **Grid Code** shall be deemed to be amended accordingly) from (and including) the date specified in such notification or other such date as directed by the CER. The date may be modified to ensure that the revision is implemented simultaneously in both jurisdictions on the island of Ireland.

GC.9 DEROGATIONS

GC.9.1 If a **User** finds that it is, or will be, unable to comply with any provision of the **Grid Code**, then it shall without delay report such non-compliance to the **TSO** and shall, subject to the provisions of GC.9.2 make such reasonable efforts as are required to remedy such non-compliance as soon as reasonably practicable. Where the **TSO** is aware or should reasonably be aware that a non-compliance may have an impact on the **Other Transmission System** or on the operation of the **SEM**, the **TSO** shall



Grid Code Review Panel Recommended Modifications from the GCRP 26

Version 1.0

provide details of the non-compliance to the **Other TSO**.

GC.9.2

Where the non-compliance is:

- a) with reference to **Plant** and/or **Apparatus** connected to the **Transmission System** and is caused solely or mainly as a result of a revision to the **Grid Code**; or
- b) with reference to **Plant** and/or **Apparatus** which is connected, approved to connect, or for which approval to connect to the **Transmission System** is being sought,

and the **User** believes either that it would be unreasonable (including cost and technical considerations) to require it to remedy such non-compliance or that it should be granted an extended period to remedy such non-compliance, it shall promptly submit to the CER a request for a derogation from such provision in accordance with the requirements of GC.9.3 and shall provide the **TSO** with a copy of such a request.

GC.9.3

A request for derogation from any provision of the **Grid Code** shall contain:

- a) the version number and the date of the **Grid Code** which includes the provision against which the non-compliance or predicted non-compliance was identified;
- b) identification of the **Plant** and/or **Apparatus** in respect of which a derogation is sought and, if relevant, the nature and extent to which the non-compliance exists;
- c) identification of the provision with which the **User** is, or will be, unable to comply;
- d) the reason for the non-compliance; and
- e) the date by which compliance will be achieved (if remedy of the non-compliance is possible) subject to GC.9.2.

GC.9.4

If the **TSO** finds that it is, or will be, unable to comply with any provision of the **Grid Code**, then it shall, subject to the remaining provisions of GC.9 make such reasonable efforts as are required to remedy such non-compliance as soon as reasonably practicable.

GC.9.5

In the case where the **TSO** requests derogation, the **TSO** shall submit the information set out in GC.9.3 to the CER.

GC.9.6 On receipt of any request for derogation, the CER shall promptly consider such request. Where the CER identifies that a derogation request may impact on the on the **Other Transmission System** or the operation of the **SEM**, the CER shall liaise with the **Regulatory Authority** in Northern Ireland in its consideration of the request. Provided that the CER considers that the grounds for the derogation are reasonable, then the CER shall grant such derogation unless the derogation would, or it is likely that it would, have a materially adverse impact on the security and stability of the **Transmission System** or the **Other Transmission System** or impose unreasonable costs on the operation of the **Transmission System** or on other **Users**. In its consideration of a derogation request by a **User**, the CER may contact the relevant **User** and/or the **TSO** to obtain clarification of the request, or to obtain further information regarding the request, or to discuss changes to the request. Where the derogation request may have an impact on the **Other Transmission System** or the operation of the **SEM**, the **TSO** shall liaise with the **Other TSO** prior to providing an assessment to the CER. The **TSO** may also contact the relevant **User** to obtain clarification of the request, or obtain further information regarding the request, or to discuss changes to the request. The **User** shall respond to all such requests without undue delay.

Derogations from any provision of the **Grid Code** shall contain:

- (a) the version number and the date of the **Grid Code** which includes the provision against which the derogation applies;
- (b) identification of the provision with which the derogation applies;
- (c) identification of the **Plant** and/or **Apparatus** in respect of which a derogation applies and, if relevant, the nature and extent to which the derogation applies including alternate compliance provisions;
- (d) the reason for the non-compliance requiring derogation;
- (e) the date by which the derogation ends if compliance will be achieved, or by which such derogation expires.

GC.9.7 To the extent of any derogation granted in accordance with this GC.9, the **TSO** and/or the **User** (as the case may be) shall be relieved from its obligation to comply with the applicable provision of the **Grid Code** and shall not be liable for failure to so comply but



shall comply with any alternate provisions as set forth in the derogation.

GC.9.8 The **TSO** shall:

- (a) keep a register of all derogations which have been granted, identifying the company and **Plant** in respect of whom the derogation has been granted, the relevant provision of the **Grid Code** and the **Grid Code** version number, the period of the derogation and the extent of compliance to the provision;
- (b) on request from any **User** or **User** of the **Other Grid Code**, provide a copy of such register of derogations to such **User**; and
- (c) publish this register on the **TSO's** website.

GC.9.9 Where a material change in circumstance has occurred a review of any existing derogations, and any derogations under consideration, may be initiated by the CER at the request of the CER, the **TSO**, or **Users**.

GC.11 ASSISTANCE IN IMPLEMENTATION

GC.11.1 The **TSO** has a duty to implement, and comply with, the **Grid Code** as approved by the CER.

GC.11.2 In order to fulfil its duty to implement the **Grid Code** the **TSO** may, in certain cases, need access across boundaries, or may need services and/or facilities from **Users**. This could, for example, include **De-Energising** and/or disconnecting **Plant** and/or **Apparatus**. It is hoped that these cases would be exceptional and it is not, therefore, possible to envisage precisely or comprehensively what the **TSO** might reasonably require in order to put it in a position to be able to carry out its duty to implement the **Grid Code** in these circumstances.

GC.11.3 Accordingly, all **Users** are required not only to abide by the letter and spirit of the **Grid Code**, which shall include providing the **TSO** with such rights of access, services and facilities as provided for in appropriate agreements, and complying with such instructions as the **TSO** may reasonably require in implementing the **Grid Code**.

PC.6.6 **System Planning Data**

PC.6.6.1 The **Planning Code** requires that, as soon as is practical, and not later than a date which is the earlier of 18 months prior to the scheduled **Operational Date** or six months after the signing of the **Connection Agreement**, unless otherwise directed by the CER, all data requirements as stated in the Appendix to the Planning Code, not previously requested by the **TSO** and supplied by the **User**, will be submitted by the **User** to the **TSO**. This will include confirming any estimated values assumed for planning purposes or, where practical, replacing them by validated actual values and by updated estimates for the future and by updating forecasts for **Forecast Data** items such as **Demand**. As more accurate data becomes available, due to completion of detailed design, test measurements/results or any other sources, this information will be submitted by the **User** to the **TSO** as soon as practicable and not later than the **Operational Date**.

CC.6 RELEVANT TECHNICAL STANDARDS APPLYING TO USER PLANT AND APPARATUS

CC.6.1 All **User Plant** and **Apparatus** associated with the connection to the **Transmission System** shall comply with the:

- (a) Irish and EU Law and
- (b) the relevant European standards; or
- (c) if there is no relevant European standards, such other relevant standard which is in common use in the European Union;

in each case as current at the date of the **User's** applicable **Connection Agreement**. Where the **TSO**, acting reasonably, determines that in order to ensure safe and co-ordinated operation of a **User's Plant** and/or **Apparatus** with the **Transmission System**, there is a requirement for supplemental specifications and/or standards to apply to the design of a **User's Plant** and/or **Apparatus**, the **TSO** shall notify the **User** and the **User** shall comply with the additional requirements. On request from the **User**, the **TSO** shall provide reasonable evidence as necessary to demonstrate the need for the supplemental specifications and/or standards.

CC.6.2 In the event that any standard or specification with which a **User's Plant** and/or **Apparatus** is required to comply under CC.6.1 is amended, the **TSO** will, having consulted with the affected **Users** and with the **Grid Code Review Panel**, make a

recommendation to the CER as to what action should be taken.

OC8.8 APPROVAL FOR OPERATIONAL TESTING

OC8.8.1 Following receipt of an **Operational Test** proposal and evaluation of the **Operational Test's** likely impact, including discussions of test requirements with the **User** requesting the **Operational Test** and with **Operationally Affected Users** as appropriate, the **TSO** will decide if approval for the requested **Operational Test** is granted.

OC8.8.2 The criteria for approving **Operational Test** include:

- (a) the impact of the **Operational Test** on **Transmission System** operation security
- (b) the impact of the **Operational Test** on **Transmission System** operation economics or on the economics of the operation of the **Other Transmission System**;
- (c) the impact of the **Operational Test** on other **Users' Systems**
- (d) the effect of the **Operational Test** on continuity and quality of electricity supply

OC8.8.3 On approval by the **TSO** of an **Operational Test** proposed by a **User**, the **TSO** shall contact the **User** outlining the proposed **Dispatch** procedure and schedule.

OC8.8.3.1 On receipt of the proposed **Dispatch** procedure and schedule of the **Operational Test**, the **Test Proposer** shall notify the **TSO** without undue delay, of the **Test Proposer's** acceptance or rejection of the proposed **Dispatch** procedure and schedule for the test.

OC8.8.3.2 On notification of rejection of the proposed **Dispatch** procedure and schedule for the **Operational Test** by the **Test Proposer**, then the **Operational Test** shall not take place. The **Test Proposer** may enter into discussions with the **TSO** as to an alternative schedule for the **Operational Test**, or may request a different **Operational Test** or may request the **Operational Test** at an alternative time.

OC8.8.3.3 On notification of acceptance of the proposed **Dispatch** procedure and schedule for the **Operational Test** by the **Test Proposer**, the **TSO** shall inform other **Users** as to the scheduled time and nature of the test, if in the opinion of the **TSO** those **Users** will or may be significantly affected by the test, or otherwise as dictated by standing arrangements.

OC8.8.3.4 If **Operationally Affected Users** are not satisfied with the proposed **Operational Test**, they shall advise the **TSO** of their concerns. The **TSO** shall not cancel proposed **Operational Test** unless these objections are reasonable. If **Operationally Affected Users** are still not satisfied with the **Operational Test** being approved, then they may appeal the decision to the CER in accordance with OC8.12.

OC8.8.3.5 Notification by the **TSO** to the **Test Proposer** of the proposed **Dispatch** procedure and schedule for an **Operational Test**, or notification by the **Test Proposer** to the **TSO** of acceptance of the proposed **Dispatch** procedure and schedule, does not constitute a **Dispatch Instruction** from the **TSO** to the **Test Proposer**.

OC8.8.4 On rejection of the proposed **Operational Test** by the **TSO**, the **Test Proposer** may enter into discussions with the **TSO** as to an alternative schedule for the **Operational Test**, or may request a different **Operational Test** or may request the **Operational Test** at an alternative time. If the amended proposal for an **Operational Test** is approved by the **TSO**, and the **User** requesting the **Operational Test** is a **Generator**, then OC8.8.3 shall apply.

OC8.8.5 If the **Test Proposer** is not satisfied that there are reasonable grounds for rejecting the proposed **Operational Test**, then they may appeal to the CER according to OC8.12.

OC8.11 TEST REPORTING

OC8.11.1 Upon conclusion of the scheduled time for an **Operational Test** the **Test Proposer** shall notify the **TSO** as to whether the test has been completed, or sections of the test if divided into sections under OC8.6.2.3 have been completed.

OC8.11.2 At the conclusion of the **Operational Test**, the **Test Proposer** shall be responsible for preparing a written report on the **Operational Test** (the "**Final Report**") which shall be available within three months of the conclusion of the **Operational Test** to the **TSO**, **Operationally Affected Users** and the CER on request.

OC8.11.3 The **Final Report** shall not be submitted to any person who is not a representative of the **TSO** or the **Test Proposer** unless the **TSO** and the **Test Proposer** having reasonably considered the confidentiality issues arising, shall have unanimously



approved such submission.

OC8.11.4 The **Final Report** shall include a description of the **Plant** and/or **Apparatus** tested and a description of the **System Test** carried out together with the results, conclusions and recommendations as they relate to the **TSO** and **Operationally Affected Users**.

OC8.12 DISPUTES

OC8.12.1 **Operationally Affected Users** who consider that the implementation of the proposed **Operational Test** will have a significant negative impact on them may appeal to the CER providing details of their objections.

OC8.12.2 The **Test Proposer** has right of appeal to the CER if it considers that rejection of the proposed **Operational Test** is unreasonable.

OC10.8 DISPUTATION OF ASSESSMENT OF NON-COMPLIANCE BY THE A USER

OC10.8.1 In the event that a **User** has received notification from the **TSO** of an assessment of non-compliance and/or application of a **Post Event Notice** under **OC7** then the **User** may reply to the **TSO** disputing in good faith the validity of either the assessment of non-compliance and/or the content of the **Post Event Notice**, detailing the grounds on which the validity is being disputed. Any dispute should be submitted within 12 hours although additional information in support of the dispute may follow within two **Business Days**.

OC10.8.2 If a **User** submits a dispute to the **TSO** under OC10.8.1, then the **TSO** shall consider the substance of the **User's** dispute. The **TSO** may, where the **TSO** considers appropriate, communicate with the **User** to clarify aspects of the assessment of non-compliance or the **User's** dispute.

OC10.8.3 The **TSO** shall determine the validity of the **User's** dispute, and shall inform the **User** within five **Business Days** as to its decision. The **TSO** shall alter or revise any assessment of non-compliance and/or **Post Event Notices** as appropriate.

OC10.8.4 In the event that there is still disagreement as to the outcome, the dispute shall if



requested by either the **TSO** or the **User**, be referred to the CER.

DEFINITIONS

Commission

~~The Commission for Energy Regulation (CER)~~

Grid Code

This code prepared by the **TSO** pursuant to section 33 of the **Act**, and approved by the CER, as from time to time revised, amended, supplemented or replaced with the approval of or at the instance of the CER.

Regulatory Authority

The authority appointed under legislation to regulate the electricity industry in the respective jurisdiction. In the Republic of Ireland it is the CER and in Northern Ireland it is NIAUR (Northern Ireland Authority for Utility Regulation).

Use of System Tariffs

Tariffs set by the **TSO** subject to approval by the CER for use of the **Transmission System**.